

<b>SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS</b> <b>OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, &amp; 30</b>				1. REQUISITION NUMBER		PAGE 1 OF 34	
2. CONTRACT NO.		3. AWARD/EFFECTIVE DATE		4. ORDER NUMBER		5. SOLICITATION NUMBER <b>F40650-03-R-0058</b>	
7. FOR SOLICITATION INFORMATION CALL:		a. NAME <b>KAREN J. BUCKNER</b>		b. TELEPHONE NUMBER (No collect calls) <b>931-454-4405</b>		6. SOLICITATION ISSUE DATE <b>19 AUG 2003</b>	
9. ISSUED BY <b>AEDC PKP</b> CODE <b>FA9100</b>  <b>AEDC/PKP</b> <b>100 KINDEL DRIVE, SUITE A-332</b> <b>ARNOLD AFB, TN 37389-1332</b> <b>KAREN J. BUCKNER 931-454-4405</b> <b>karen.buckner@arnold.af.mil</b>				10. THIS ACQUISITION IS <input checked="" type="checkbox"/> UNRESTRICTED <input type="checkbox"/> SET ASIDE: % FOR <input type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> HUBZONE SMALL BUSINESS <input type="checkbox"/> 8(A) NAICS: <b>334516</b> SIZE STANDARD:		11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input type="checkbox"/> SEE SCHEDULE	
						12. DISCOUNT TERMS	
				13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700) <input checked="" type="checkbox"/>		13b. RATING <b>DO-C9</b>	
						14. METHOD OF SOLICITATION <input type="checkbox"/> RFQ <input type="checkbox"/> IFB <input checked="" type="checkbox"/> RFP	
15. DELIVER TO CODE <b>SEE SF1449 Continuation</b>				16. ADMINISTERED BY CODE			
17a. CONTRACTOR/ OFFEROR CODE FACILITY CODE				18a. PAYMENT WILL BE MADE BY CODE			
TELEPHONE NO.				18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a. UNLESS BLOCK BELOW IS CHECKED <input type="checkbox"/> SEE ADDENDUM			
17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER							
19. ITEM NO.		20. SCHEDULE OF SUPPLIES/SERVICES		21. QUANTITY		22. UNIT	
		<b>See SF1449 Continuation</b> (Attach Additional Sheets as Necessary)				23. UNIT PRICE	
						24. AMOUNT	
25. ACCOUNTING AND APPROPRIATION DATA <b>See SF1449 Continuation</b>						26. TOTAL AWARD AMOUNT (For Govt. Use Only)	
<input checked="" type="checkbox"/> 27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1, 52.212-4. FAR 52.212-3 AND 52.212-5 ARE ATTACHED. ADDENDA <input checked="" type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED. <input type="checkbox"/> 27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED. ADDENDA <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED.							
28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN.				29. AWARD OF CONTRACT: REF. OFFER DATED YOUR OFFER ON SOLICITATION (BLOCK 5) INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS: SEE CONTINUATION.			
30a. SIGNATURE OF OFFEROR/CONTRACTOR				31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)			
30b. NAME AND TITLE OF SIGNER (Type or print)		30c. DATE SIGNED		31b. NAME OF CONTRACTING OFFICER (Type or print)		31c. DATE SIGNED	
32a. QUANTITY IN COLUMN 21 HAS BEEN <input type="checkbox"/> RECEIVED <input type="checkbox"/> INSPECTED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS NOTED							
32b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE				32c. DATE			
32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE							
32e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE				32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE			
				32g. E-MAIL OF AUTHORIZED GOVERNMENT REPRESENTATIVE			
33. SHIP NUMBER		34. VOUCHER NUMBER		35. AMT VERIFIED CORRECT FOR		36. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	
<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL						37. CHECK NUMBER	
38. S/R ACCT NUMBER		39. S/R VOUCHER NUMBER		40. PAID BY			
41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT				42a. RECEIVED BY (Print)			
41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER				42b. RECEIVED AT (Location)			
				42c. DATE REC'D (YY/MM/DD)			
				42d. TOTAL CONTAINERS			

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
0001	<p><i>Noun:</i> OPTRONIC LABORATORIES (OL) BASIC SPECTRORADIOMETER</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i>            Optronc Laboratories (OL) 750D Basic Spectroradiometer or equal consisting of:            -OL 750-C Controller            -OL 750-M-D Double Monochromtor            -General Operating Software (Windows 95/98/NT/2000/ME/XP Compatible)</p>	1 Each	_____
0002	<p><i>Noun:</i> AC LOCK IN SIGNAL DETECTION SYSTEM</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i>            OL 750-SDS-220 AC Lock-In Signal Detection System or equal.</p>	1 Each	_____
0003	<p><i>Noun:</i> PROGRAMMABLE HV DC SUPPLY FOR PMT DETECTORS</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i>            OL 750-645 Programmable HV DC Supply for PMT Detectors or equal.</p>	1 Each	_____

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
0004	<p><i>Noun:</i> BLOCKING FILTER</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL F-028-035 Blocking Filter or equal.</p>	1 Each	<hr/>
0005	<p><i>Noun:</i> BLOCKING FILTER</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL F-035-060 Blocking Filter or equal.</p>	1 Each	<hr/>
0006	<p><i>Noun:</i> BLOCKING FILTER</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL F-060-110 Blocking Filter or equal.</p>	1 Each	<hr/>
0007	<p><i>Noun:</i> BLOCKING FILTER</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL F-110-200 Blocking Filter or equal.</p>	1 Each	<hr/>

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
0008	<p><i>Noun:</i> BLOCKING FILTER</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL F-200-360 Blocking Filter or equal.</p>	1 Each	<hr/>
0009	<p><i>Noun:</i> BLOCKING FILTER</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL F-360-640 Blocking Filter or equal.</p>	1 Each	<hr/>
0010	<p><i>Noun:</i> BLOCKING FILTER</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL F-640-1100 Blocking Filter or equal.</p>	1 Each	<hr/>
0011	<p><i>Noun:</i> BLOCKING FILTER</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL F-1100-1800 Blocking Filter or equal.</p>	1 Each	<hr/>

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
0012	<p><i>Noun:</i> BLOCKING FILTER</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL F-1800-3000 Blocking Filter or equal.</p>	1 Each	<hr/>
0013	<p><i>Noun:</i> GRATING</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL LG-03-600 Grating (0.3 Micrometer Blaze, 600 G/MM) or equal.</p>	2 Each	<hr/>
0014	<p><i>Noun:</i> BLAZE GRATING</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL LG-075-600 Blaze Grating (0.75 Micrometer Blaze, 600 G/MM) or equal.</p>	2 Each	<hr/>
0015	<p><i>Noun:</i> GRATING</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL LG-20-150 Grating (2.0 Micrometer, 150 G/MM) or equal.</p>	2 Each	<hr/>

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
0016	<p><i>Noun:</i> GRATING</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL LG-40-150 Grating (4.0 Micrometer Blaze, 150 G/MM) or equal.</p>	2 Each	<hr/>
0017	<p><i>Noun:</i> GRATING</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL LG-100-75 Grating (10 Micrometer Blaze, 75 G/MM) or equal.</p>	2 Each	<hr/>
0018	<p><i>Noun:</i> GRATING</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL LG-225-40 Grating (22.5 Micrometer Blaze, 40 G/MM) or equal.</p>	2 Each	<hr/>
0019	<p><i>Noun:</i> TRI GRATING MOUNT</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL LG-1001 Tri Grating Mount or equal.</p>	2 Each	<hr/>

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
0020	<p><i>Noun:</i> AC CURRENT MODE DETECTOR SUPPORT MODULE</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i> OL DSM-1A AC Current Mode Detector Support Module (For OL 730-5 SI &amp; OL 740-16 GE Detectors) or equal.</p>	2 Each	
0021	<p><i>Noun:</i> AC VOLTAGE MODE DETECTOR SUPPORT MODULE</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i> OL DSM-2A AC Voltage Mode Detector Support Module (For OL 740-14B PBS, OL 740-17 Pyroelectric &amp; OL 740-18 INSB Detectors) or equal.</p>	3 Each	
0022	<p><i>Noun:</i> AC VOLTAGE MODE NANOVOLT DETECTOR SUPPORT MODULE</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i> OL DSM-3 AC Voltage Mode Nanovolt Detector Support Module (For OL 740-19 HGCDTE Detector) or equal.</p>	1 Each	

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
0023	<p>Noun: DETECTOR SUPPORT MODULE ADAPTOR</p> <p>ACRN: AA</p> <p>NSN: N - Not Applicable</p> <p>Contract type: J - FIRM FIXED PRICE</p> <p>Inspection: DESTINATION</p> <p>Acceptance: DESTINATION</p> <p>FOB: DESTINATION</p> <p>Descriptive Data:</p> <p>OL 750-610 Detector Support Module Adaptor or equal.</p>	6 Each	
0024	<p>Noun: DETECTOR CHANNEL MULTIPLEXER</p> <p>ACRN: AA</p> <p>NSN: N - Not Applicable</p> <p>Contract type: J - FIRM FIXED PRICE</p> <p>Inspection: DESTINATION</p> <p>Acceptance: DESTINATION</p> <p>FOB: DESTINATION</p> <p>Descriptive Data:</p> <p>OL 750-620 Detector Channel Multiplexer or equal.</p>	2 Each	
0025	<p>Noun: OL 750S BASIC SPECTORRADIOMETER</p> <p>ACRN: AA</p> <p>NSN: N - Not Applicable</p> <p>Contract type: J - FIRM FIXED PRICE</p> <p>Inspection: DESTINATION</p> <p>Acceptance: DESTINATION</p> <p>FOB: DESTINATION</p> <p>Descriptive Data:</p> <p>OL 750S Basic Spectroradiometer or equal consisting of:</p> <p>-OL 750-C Controller</p> <p>-OL 750-M-S Single Monochromator</p> <p>-General Operating Software (Windows 95/98/NT/2000/XP Compatible)</p>	1 Each	
0026	<p>Noun: AC LOCK-IN SIGNAL DETECTION SYSTEM</p> <p>ACRN: AA</p> <p>NSN: N - Not Applicable</p> <p>Contract type: J - FIRM FIXED PRICE</p> <p>Inspection: DESTINATION</p> <p>Acceptance: DESTINATION</p> <p>FOB: DESTINATION</p> <p>Descriptive Data:</p> <p>OL 750 SDS-220 AC Lock-IN Signal Detection System or equal.</p>	1 Each	



ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
<b>0027</b>	<p><i>Noun:</i> BLOCKING FILTER</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL F-060-110 Blocking Filter or equal.</p>	1 Each	_____
<b>0028</b>	<p><i>Noun:</i> BLOCKING FILTER</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL F-110-200 Blocking Filter or equal.</p>	1 Each	_____
<b>0029</b>	<p><i>Noun:</i> BLOCKING FILTER</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL F-200-360 Blocking Filter or equal.</p>	1 Each	_____
<b>0030</b>	<p><i>Noun:</i> BLOCKING FILTER</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL F-360-640 Blocking Filter or equal.</p>	1 Each	_____

ITEM	SUPPLIES OR SERVICES	Qty	Unit Price
		Purch Unit	Total Item Amount
0031		1	
		Each	
	<i>Noun:</i>	BLOCKING FILTER	
	<i>ACRN:</i>	AA	
	<i>NSN:</i>	N - Not Applicable	
	<i>Contract type:</i>	J - FIRM FIXED PRICE	
	<i>Inspection:</i>	DESTINATION	
	<i>Acceptance:</i>	DESTINATION	
	<i>FOB:</i>	DESTINATION	
	<i>Descriptive Data:</i>		
	OL F-640-1100 Blocking Filter or equal.		
0032		1	
		Each	
	<i>Noun:</i>	BLOCKING FILTER	
	<i>ACRN:</i>	AA	
	<i>NSN:</i>	N - Not Applicable	
	<i>Contract type:</i>	J - FIRM FIXED PRICE	
	<i>Inspection:</i>	DESTINATION	
	<i>Acceptance:</i>	DESTINATION	
	<i>FOB:</i>	DESTINATION	
	<i>Descriptive Data:</i>		
	OL F-1100-1800 Blocking Filter or equal.		
0033		1	
		Each	
	<i>Noun:</i>	BLOCKING FILTER	
	<i>ACRN:</i>	AA	
	<i>NSN:</i>	N - Not Applicable	
	<i>Contract type:</i>	J - FIRM FIXED PRICE	
	<i>Inspection:</i>	DESTINATION	
	<i>Acceptance:</i>	DESTINATION	
	<i>FOB:</i>	DESTINATION	
	<i>Descriptive Data:</i>		
	OL F-1800-3000 Blocking Filter or equal.		
0034		1	
		Each	
	<i>Noun:</i>	GRATING	
	<i>ACRN:</i>	AA	
	<i>NSN:</i>	N - Not Applicable	
	<i>Contract type:</i>	J - FIRM FIXED PRICE	
	<i>Inspection:</i>	DESTINATION	
	<i>Acceptance:</i>	DESTINATION	
	<i>FOB:</i>	DESTINATION	
	<i>Descriptive Data:</i>		
	OL LG-16-600 Grating (1.6 Micrometer Blaze, 600 G/MM) or equal.		

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
0035	<p><i>Noun:</i> GRATING</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL LG-40-150 Grating (4.0 Micrometer Blaze, 150 G/MM) or equal.</p>	1 Each	<hr/>
0036	<p><i>Noun:</i> GRATING</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL LG-100-75 Grating (10 Micrometer Blaze, 75 G/MM) or equal.</p>	1 Each	<hr/>
0037	<p><i>Noun:</i> GRATING</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL LG-225-40 Grating (22.5 Micrometer Blaze, 40 G/MM) or equal.</p>	1 Each	<hr/>
0038	<p><i>Noun:</i> TRI GRATING MOUNT</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i></p> <p>OL LG-1001 Tri Grating Mount or equal.</p>	1 Each	<hr/>

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
0039	<p><i>Noun:</i> WINDOWS 95/98/NT/2000/ME/XP COMPATIBLE SOFTWARE</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i> OL-750-423 Source Spectral Analysis Software 1, Windows 95/98/NT/2000/ME/XP Compatible Software for OL Series 750 or equal.</p>	1 Each	
0040	<p><i>Noun:</i> SPECTRAL TRANSMITTANCE (LINEAR OR DIFFUSE) SOFTWARE</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i> OL 750-424 Spectral Transmittance (Linear or Diffuse) Software or equal.</p>	1 Each	
0041	<p><i>Noun:</i> DETECTOR SPECTRAL RESPONSE SOFTWARE</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i> OL 750-425 Detector Spectral Response Software or equal.</p>	1 Each	
0042	<p><i>Noun:</i> DIFFUSE SPECTRAL REFLECTANCE SOFTWARE</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i> OL 750-427 Diffuse Spectral Reflectance Software or equal.</p>	1 Each	

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
0043	<p><i>Noun:</i> SPECULAR SPECTRAL REFLECTANCE SOFTWARE</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i> OL 750-429 Specular Spectral Reflectance Software or equal.</p>	1 Each	
0044	<p><i>Noun:</i> SOFTWARE DEVELOPMENT KIT</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i> OL 750-420 Software Development Kit (Includes Source Code to Control OL 750 System) or equal.</p>	1 Each	
0045	<p><i>Noun:</i> ALL MIRROR COLLIMATOR/TRANSMITTANCE/10 DEG REFLECTANCE ATTACHMENT</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i> OL 750-10T/R All Mirror Collimator/Transmittance/10 Deg Reflectance Attachment or equal.</p>	1 Each	
0046	<p><i>Noun:</i> UV-VISIBLE DUAL SOURCE ATTACHMENT</p> <p><i>ACRN:</i> AA</p> <p><i>NSN:</i> N - Not Applicable</p> <p><i>Contract type:</i> J - FIRM FIXED PRICE</p> <p><i>Inspection:</i> DESTINATION</p> <p><i>Acceptance:</i> DESTINATION</p> <p><i>FOB:</i> DESTINATION</p> <p><i>Descriptive Data:</i> OL 740-20D/UV UV-Visible Dual Source Attachment (150W Q1 and D2) or equal.</p>	1 Each	

ITEM	SUPPLIES SCHEDULE DATA	QTY	SHIP TO	MARK FOR	TRANS PRI	DATE				
0001		1	FB2804		30	DARO				
	Noun:		OPTRONIC LABORATORIES (OL) BASIC SPECTRORADIOMETER							
	ACRN:		AA							
	Descriptive Data:									
	All items shall be delivered to:									
	USAF Warehouse Receiving #1									
	1476 Avenue E									
	Arnold AFB TN 37389-8000									
	Mark For: F40650- REQ: 129748									
0002		1	FB2804		30	DARO				
	Noun:		AC LOCK IN SIGNAL DETECTION SYSTEM							
	ACRN:		AA							
	Descriptive Data:									
	All items shall be delivered to:									
	USAF Warehouse Receiving #1									
	1476 Avenue E									
	Arnold AFB TN 37389-8000									
	Mark For: F40650- REQ: 129748									
0003		1	FB2804		30	DARO				
	Noun:		PROGRAMMABLE HV DC SUPPLY FOR PMT DETECTORS							
	ACRN:		AA							
	Descriptive Data:									
	All items shall be delivered to:									
	USAF Warehouse Receiving #1									
	1476 Avenue E									
	Arnold AFB TN 37389-8000									
	Mark For: F40650- REQ: 129748									

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ITEM	SUPPLIES SCHEDULE DATA	QTY	SHIP TO	MARK FOR	TRANS PRI	DATE
0004		1	FB2804		30	DARO
	<i>Noun:</i>		BLOCKING FILTER			
	<i>ACRN:</i>		AA			
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650-		REQ: 129748			
0005		1	FB2804		30	DARO
	<i>Noun:</i>		BLOCKING FILTER			
	<i>ACRN:</i>		AA			
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650-		REQ: 129748			
0006		1	FB2804		30	DARO
	<i>Noun:</i>		BLOCKING FILTER			
	<i>ACRN:</i>		AA			
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650-		REQ: 129748			

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ITEM	SUPPLIES SCHEDULE DATA	QTY	SHIP TO	MARK FOR	TRANS PRI	DATE
0007		1	FB2804		30	DARO
	<i>Noun:</i>		BLOCKING FILTER			
	<i>ACRN:</i>		AA			
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650-		REQ: 129748			
0008		1	FB2804		30	DARO
	<i>Noun:</i>		BLOCKING FILTER			
	<i>ACRN:</i>		AA			
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650-		REQ: 129748			
0009		1	FB2804		30	DARO
	<i>Noun:</i>		BLOCKING FILTER			
	<i>ACRN:</i>		AA			
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650-		REQ: 129748			



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ITEM	SUPPLIES SCHEDULE DATA	QTY	SHIP TO	MARK FOR	TRANS PRI	DATE
0010		1	FB2804		30	DARO
	<i>Noun:</i>		BLOCKING FILTER			
	<i>ACRN:</i>		AA			
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650-		REQ: 129748			
0011		1	FB2804		30	DARO
	<i>Noun:</i>		BLOCKING FILTER			
	<i>ACRN:</i>		AA			
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650-		REQ: 129748			
0012		1	FB2804		30	DARO
	<i>Noun:</i>		BLOCKING FILTER			
	<i>ACRN:</i>		AA			
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650-		REQ: 129748			

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ITEM	SUPPLIES SCHEDULE DATA	QTY	SHIP TO	MARK FOR	TRANS PRI	DATE
0013		2	FB2804		30	DARO
	<i>Noun:</i>	GRATING				
	<i>ACRN:</i>	AA				
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650-	REQ: 129748				
0014		2	FB2804		30	DARO
	<i>Noun:</i>	BLAZE GRATING				
	<i>ACRN:</i>	AA				
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650-	REQ: 129748				
0015		2	FB2804		30	DARO
	<i>Noun:</i>	GRATING				
	<i>ACRN:</i>	AA				
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650-	REQ: 129748				

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ITEM	SUPPLIES SCHEDULE DATA	QTY	SHIP TO	MARK FOR	TRANS PRI	DATE
0016		2	FB2804		30	DARO
	<i>Noun:</i>	GRATING				
	<i>ACRN:</i>	AA				
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650- REQ: 129748					
0017		2	FB2804		30	DARO
	<i>Noun:</i>	GRATING				
	<i>ACRN:</i>	AA				
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650- REQ: 129748					
0018		2	FB2804		30	DARO
	<i>Noun:</i>	GRATING				
	<i>ACRN:</i>	AA				
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650- REQ: 129748					

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ITEM	SUPPLIES SCHEDULE DATA	QTY	SHIP TO	MARK FOR	TRANS PRI	DATE
0019		2	FB2804		30	DARO
	<i>Noun:</i>		TRI GRATING MOUNT			
	<i>ACRN:</i>		AA			
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650- REQ: 129748					
0020		2	FB2804		30	DARO
	<i>Noun:</i>		AC CURRENT MODE DETECTOR SUPPORT			
			MODULE			
	<i>ACRN:</i>		AA			
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650- REQ: 129748					
0021		3	FB2804		30	DARO
	<i>Noun:</i>		AC VOLTAGE MODE DETECTOR SUPPORT			
			MODULE			
	<i>ACRN:</i>		AA			
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650- REQ: 129748					

ITEM	SUPPLIES SCHEDULE DATA	QTY	SHIP TO	MARK FOR	TRANS PRI	DATE				
0022		1	FB2804		30	DARO				
	Noun:		AC VOLTAGE MODE NANOVOLT DETECTOR SUPPORT MODULE							
	ACRN:		AA							
	Descriptive Data:									
	All items shall be delivered to:									
	USAF Warehouse Receiving #1 1476 Avenue E Arnold AFB TN 37389-8000									
	Mark For: F40650-      REQ: 129748									
0023		6	FB2804		30	DARO				
	Noun:		DETECTOR SUPPORT MODULE ADAPTOR							
	ACRN:		AA							
	Descriptive Data:									
	All items shall be delivered to:									
	USAF Warehouse Receiving #1 1476 Avenue E Arnold AFB TN 37389-8000									
	Mark For: F40650-      REQ: 129748									
0024		2	FB2804		30	DARO				
	Noun:		DETECTOR CHANNEL MULTIPLEXER							
	ACRN:		AA							
	Descriptive Data:									
	All items shall be delivered to:									
	USAF Warehouse Receiving #1 1476 Avenue E Arnold AFB TN 37389-8000									
	Mark For: F40650-      REQ: 129748									

ITEM	SUPPLIES SCHEDULE DATA	QTY	SHIP TO	MARK FOR	TRANS PRI	DATE
0025		1	FB2804		30	DARO
	Noun:	OL 750S BASIC SPECTORRADIOMETER				
	ACRN:	AA				
	Descriptive Data:					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650- REQ: 129748					
0026		1	FB2804		30	DARO
	Noun:	AC LOCK-IN SIGNAL DETECTION SYSTEM				
	ACRN:	AA				
	Descriptive Data:					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650- REQ: 129748					
0027		1	FB2804		30	DARO
	Noun:	BLOCKING FILTER				
	ACRN:	AA				
	Descriptive Data:					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650- REQ: 129748					

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ITEM	SUPPLIES SCHEDULE DATA	QTY	SHIP TO	MARK FOR	TRANS PRI	DATE
0028		1	FB2804		30	DARO
	<i>Noun:</i>		BLOCKING FILTER			
	<i>ACRN:</i>		AA			
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650-      REQ: 129748					
0029		1	FB2804		30	DARO
	<i>Noun:</i>		BLOCKING FILTER			
	<i>ACRN:</i>		AA			
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650-      REQ: 129748					
0030		1	FB2804		30	DARO
	<i>Noun:</i>		BLOCKING FILTER			
	<i>ACRN:</i>		AA			
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650-      REQ: 129748					

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ITEM	SUPPLIES SCHEDULE DATA	QTY	SHIP TO	MARK FOR	TRANS PRI	DATE
0031		1	FB2804		30	DARO
	<i>Noun:</i>		BLOCKING FILTER			
	<i>ACRN:</i>		AA			
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650-		REQ: 129748			
0032		1	FB2804		30	DARO
	<i>Noun:</i>		BLOCKING FILTER			
	<i>ACRN:</i>		AA			
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650-		REQ: 129748			
0033		1	FB2804		30	DARO
	<i>Noun:</i>		BLOCKING FILTER			
	<i>ACRN:</i>		AA			
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650-		REQ: 129748			



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ITEM	SUPPLIES SCHEDULE DATA	QTY	SHIP TO	MARK FOR	TRANS PRI	DATE
0034		1	FB2804		30	DARO
	<i>Noun:</i>	GRATING				
	<i>ACRN:</i>	AA				
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650- REQ: 129748					
0035		1	FB2804		30	DARO
	<i>Noun:</i>	GRATING				
	<i>ACRN:</i>	AA				
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650- REQ: 129748					
0036		1	FB2804		30	DARO
	<i>Noun:</i>	GRATING				
	<i>ACRN:</i>	AA				
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650- REQ: 129748					

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ITEM	SUPPLIES SCHEDULE DATA	QTY	SHIP TO	MARK FOR	TRANS PRI	DATE
0037		1	FB2804		30	DARO
	<i>Noun:</i>	GRATING				
	<i>ACRN:</i>	AA				
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650- REQ: 129748					
0038		1	FB2804		30	DARO
	<i>Noun:</i>	TRI GRATING MOUNT				
	<i>ACRN:</i>	AA				
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650- REQ: 129748					
0039		1	FB2804		30	DARO
	<i>Noun:</i>	WINDOWS 95/98/NT/2000/ME/XP				
		COMPATIBLE SOFTWARE				
	<i>ACRN:</i>	AA				
	<i>Descriptive Data:</i>					
	All items shall be delivered to:					
	USAF Warehouse Receiving #1					
	1476 Avenue E					
	Arnold AFB TN 37389-8000					
	Mark For: F40650- REQ: 129748					

ITEM	SUPPLIES SCHEDULE DATA	QTY	SHIP TO	MARK FOR	TRANS PRI	DATE				
0040		1	FB2804		30	DARO				
	Noun:	SPECTRAL TRANSMITTANCE (LINEAR OR DIFFUSE) SOFTWARE								
	ACRN:	AA								
	Descriptive Data:									
	All items shall be delivered to:									
	USAF Warehouse Receiving #1 1476 Avenue E Arnold AFB TN 37389-8000									
	Mark For: F40650-      REQ: 129748									
0041		1	FB2804		30	DARO				
	Noun:	DETECTOR SPECTRAL RESPONSE SOFTWARE								
	ACRN:	AA								
	Descriptive Data:									
	All items shall be delivered to:									
	USAF Warehouse Receiving #1 1476 Avenue E Arnold AFB TN 37389-8000									
	Mark For: F40650-      REQ: 129748									
0042		1	FB2804		30	DARO				
	Noun:	DIFFUSE SPECTRAL REFLECTANCE SOFTWARE								
	ACRN:	AA								
	Descriptive Data:									
	All items shall be delivered to:									
	USAF Warehouse Receiving #1 1476 Avenue E Arnold AFB TN 37389-8000									
	Mark For: F40650-      REQ: 129748									

ITEM	SUPPLIES SCHEDULE DATA	QTY	SHIP TO	MARK FOR	TRANS PRI	DATE				
0043		1	FB2804		30	DARO				
	Noun:		SPECULAR SPECTRAL FEFLECTANCE SOFTWARE							
	ACRN:		AA							
	Descriptive Data:									
	All items shall be delivered to:									
	USAF Warehouse Receiving #1									
	1476 Avenue E									
	Arnold AFB TN 37389-8000									
	Mark For: F40650- REQ: 129748									
0044		1	FB2804		30	DARO				
	Noun:		SOFTWARE DEVELOPMENT KIT							
	ACRN:		AA							
	Descriptive Data:									
	All items shall be delivered to:									
	USAF Warehouse Receiving #1									
	1476 Avenue E									
	Arnold AFB TN 37389-8000									
	Mark For: F40650- REQ: 129748									
0045		1	FB2804		30	DARO				
	Noun:		ALL MIRROR COLLIMATOR/TRANSMITTANCE/10 DEG REFLECTANCE ATTACHMENT							
	ACRN:		AA							
	Descriptive Data:									
	All items shall be delivered to:									
	USAF Warehouse Receiving #1									
	1476 Avenue E									
	Arnold AFB TN 37389-8000									
	Mark For: F40650- REQ: 129748									

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ITEM	SUPPLIES SCHEDULE DATA	QTY	SHIP TO	MARK FOR	TRANS PRI	DATE
0046		1	FB2804		30	DARO

*Noun:* UV-VISIBLE DUAL SOURCE ATTACHMENT  
*ACRN:* AA

*Descriptive Data:*  
All items shall be delivered to:

USAF Warehouse Receiving #1  
1476 Avenue E  
Arnold AFB TN 37389-8000

Mark For: F40650- REQ: 129748

ACRN	Appropriation/Lmt Subhead/Supplemental Accounting Data	Obligation Amount
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57 33600 293 4711 6606TS 732120 14083 65807F 503000 F03000  
JON: 00009712

**1. FAR 52.212-04 ADDENDUM TO CONTRACT TERMS AND CONDITIONS--COMMERCIAL ITEMS (Feb 2002)**

52.212-4, Contract Terms and Conditions -- Commercial Items is hereby tailored as follows:

- (a) The place of inspection, acceptance, and FOB is Arnold Engineering Development Center .

Arnold AFB Tennessee.

**2. FAR 52.212-05 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS--COMMERCIAL ITEMS (Jun 2003)**

(a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clause, which are incorporated in this contract by reference, to implement provisions of law or Executive orders applicable to acquisitions of commercial items: 52.233-3, Protest after Award (Aug 1996)(31 U.S.C 3553).

(b) The Contractor shall comply with the FAR clauses in this paragraph (b) that the contracting officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items:

☒ (1) 52.203-06, Restrictions on Subcontractor Sales to the Government (Jul 1995), with Alternate I (Oct 1995) (41 U.S.C. 253g and 10 U.S.C. 2402).

☒ (3) 52.219-04, Notice of Price Evaluation Preference for HUBZone Small Business Concerns (Jan 1999). (If the offeror elects to waive the preference, it shall so indicate in its offer.)

☒ (7) 52.219-08, Utilization of Small Business Concerns (Oct 2000) (15 U.S.C. 637 (d)(2) and (3)).

☒ (10)(i) 52.219-23, Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns (Jun 2003) (Pub. L. 103-355, section 7102, and 10 U.S.C. 2323) (if the offeror elects to waive the adjustment, it shall so indicate in its offer).

☒ (13) 52.222-03, Convict Labor (June 2003)(E.O. 11755).

☒ (14) 52.222-19, Child Labor--Cooperation with Authorities and Remedies (Sep 2002) (E.O. 13126).

☒ (15) 52.222-21, Prohibition of Segregated Facilities (Feb 1999).

☒ (16) 52.222-26, Equal Opportunity (Apr 2002)(E.O. 11246).

☒ (17) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Dec 2001)(38 U.S.C. 4212).

☒ (18) 52.222-36, Affirmative Action for Workers with Disabilities (Jun 1998) (29 U.S.C. 793).

☒ (19) 52.222-37, Employment Reports on Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Dec 2001) (38 U.S.C. 4212).

☒ (22)(i) 52.225-03, Buy American Act - North American Free Trade Agreement -- Israeli Trade Act (Jun 2003)(41 U.S.C. 10a - 10d, 19 U.S.C. 3301 note, 19 U.S.C 2112 note).

☒ (24) 52.225-13, Restriction on Certain Foreign Purchases (Deviation) (Jun 2003) (E.O. 12722, 12724, 13059, 13067, 13121, and 13129)

☒ (29) 52.232-33, Payment by Electronic Funds Transfer-Central Contractor Registration (May 1999) (31 U.S.C. 3332).

☒ (31) 52.232-36, Payment by Third Party (May 1999)(31 U.S.C. 3332).

(c) The Contractor shall comply with the FAR clauses in this paragraph (c), applicable to commercial services, that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or executive orders applicable to acquisitions of commercial items:

(d) Comptroller General Examination of Record. The Contractor shall comply with the provisions of this paragraph (d) if this contract was awarded using other than sealed bid, is in excess of the simplified acquisition threshold, and does not contain the clause at 52.215-2, Audit and Records -- Negotiation.

(1) The Comptroller General of the United States, or an authorized representative of the Comptroller General, shall have access to and right to examine any of the Contractor's directly pertinent records involving transactions related to this contract.

(2) The Contractor shall make available at its offices at all reasonable times the records, materials, and other evidence for examination, audit, or reproduction, until 3 years after final payment under this contract or for any shorter period specified in FAR Subpart 4.7, Contractor Records Retention, of the other clauses of this contract. If this contract is completely or partially terminated, the records relating to the work terminated shall be made available for 3 years after any resulting final termination settlement. Records relating to appeals under the disputes clause or to litigation or the settlement of claims arising under or relating to this contract shall be made available until such appeals, litigation, or claims are finally resolved.

(3) As used in this clause, records include books, documents, accounting procedures and practices, and other data, regardless of type and regardless of form. This does not require the Contractor to create or maintain any record that the Contractor does not maintain in the ordinary course of business or pursuant to a provision of law.

(e)

(1) Notwithstanding the requirements of the clauses in paragraphs (a), (b), (c) and (d) of this clause, the Contractor is not required to flow down any FAR clause, other than those in paragraphs (i) through (vi) of this paragraph in a subcontract for commercial items. Unless otherwise indicated below, the extent of the flow down shall be as required by the clause--

(i) 52.219-8, Utilization of Small Business Concerns (Oct 2000)(15 U.S.C. 637(d)(2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$500,000 (\$1,000,000 for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.

(ii) 52.222-26, Equal Opportunity (Apr 2002)(E.O. 11246).

(iii) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Dec 2001)(38 U.S.C. 4212).

(iv) 52.222-36, Affirmative Action for Workers with Disabilities (June 1998)(29 U.S.C. 793).

(v) 52.222-41, Service Contract Act of 1965, as Amended (May 1989), flow down required for all subcontracts subject to the Service Contract Act of 1965 (41 U.S.C. 351, et seq.)

(vi) 52.247-64, Preference for Privately-Owned U.S. Flag Commercial Vessels (Apr 2003)(46 U.S.C. Appx 1241 and 10 U.S.C. 2631). Flow down required in accordance with paragraph (d) of FAR clause 52.247-64,

(2) While not required, the contractor may include in its subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

### **3. DFARS 252.212-7001 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS APPLICABLE TO DEFENSE ACQUISITIONS OF COMMERCIAL ITEMS (Jun 2003)**

(a) The Contractor agrees to comply with the following Federal Acquisition Regulation (FAR) clause which, if checked, is included in this contract by reference to implement a provision of law applicable to acquisitions of commercial items or components.

☒ 52.203-03 Gratuities (APR 1984) (10 U.S.C. 2207).

(b) The Contractor agrees to comply with any clause that is checked on the following list of Defense FAR Supplement clauses which, if checked, is included in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items or components.

☒ 252.225-7001 Buy American Act and Balance of Payments Program (Apr 2003) (41 U.S.C. 10a-10d, E.O. 10582).

☒ 252.225-7012 Preference for Certain Domestic Commodities (Feb 2003) (10 U.S.C. 2533a).

☒ 252.225-7014 Preference for Domestic Specialty Metals (Apr 2003) (10 U.S.C. 2533a).

☒ 252.227-7015 Technical Data--Commercial Items (Nov 1995) (10 U.S.C. 2320).

☒ 252.227-7037 Validation of Restrictive Markings on Technical Data (Sep 1999) (10 U.S.C. 2321).

☒ 252.232-7003 Electronic Submission Of Payment Requests (Mar 2003) (10 U.S.C. 2227).

☒ 252.243-7002 Requests for Equitable Adjustment (Mar 1998) (10 U.S.C. 2410).

☒ 252.247-7023 Transportation of Supplies by Sea (May 2002) (10 U.S.C. 2631).

(c) In addition to the clauses listed in paragraph (e) of the Contract Terms and Conditions Required to Implement Statutes or Executive Orders--Commercial Items clause of this contract (FAR 52.212-5), the Contractor shall include the terms of the following clauses, if applicable, in subcontracts for commercial items or commercial components, awarded at any tier under this contract:

252.225-7014 Preference for Domestic Specialty Metals, Alternate I (APR 2003) (10 U.S.C. 2533a).

252.247-7023 Transportation of Supplies by Sea (MAY 2002) (10 U.S.C. 2631).



252.247-7024 Notification of Transportation of Supplies by Sea (MAR 2000) (10 U.S.C. 2631).

DOCUMENT	PGS	DATE	TITLE
ATTACHMENT 1	5	19 AUG 2003	SPECTRORADIOMETER SPECIFICATIONS

**1. FAR 52.211-06 BRAND NAME OR EQUAL (Aug 1999)**

(a) If an item in this solicitation is identified as "brand name or equal," the purchase description reflects the characteristics and level of quality that will satisfy the Government's needs. The salient physical, functional, or performance characteristics that "equal" products must meet are specified in the solicitation.

(b) To be considered for award, offers of "equal" products, including "equal" products of the brand name manufacturer, must-

(1) Meet the salient physical, functional, or performance characteristic specified in this solicitation;

(2) Clearly identify the item by--

(i) Brand name, if any; and

(ii) Make or model number;

(3) Include descriptive literature such as illustrations, drawings, or a clear reference to previously furnished descriptive data or information available to the Contracting Officer; and

(4) Clearly describe any modifications the offeror plans to make in a product to make it conform to the solicitation requirements. Mark any descriptive material to clearly show the modification.

(c) The Contracting Officer will evaluate "equal" products on the basis of information furnished by the offeror or identified in the offer and reasonably available to the Contracting Officer. The Contracting Officer is not responsible for locating or obtaining any information not identified in the offer.

(d) Unless the offeror clearly indicates in its offer that the product being offered is an "equal" product, the offeror shall provide the brand name product referenced in the solicitation.

**2. FAR 52.212-01 INSTRUCTIONS TO OFFERORS--COMMERCIAL ITEMS (Jul 2003)**

(a) North American Industry Classification System (NAICS) code and small business size standard. The NAICS code and small business size standard for this acquisition appear in Block 10 of the solicitation cover sheet (SF 1449). However, the small business size standard for a concern which submits an offer in its own name, but which proposes to furnish an item which it did not itself manufacture, is 500 employees.

(b) Submission of offers. Submit signed and dated offers to the office specified in this solicitation at or before the exact time specified in this solicitation. Offers may be submitted on the SF 1449, letterhead stationery, or as otherwise specified in the solicitation. As a minimum, offers must show --

(1) The solicitation number;

(2) The time specified in the solicitation for receipt of offers;

(3) The name, address, and telephone number of the offeror;

(4) A technical description of the items being offered in sufficient detail to evaluate compliance with the requirements in the solicitation. This may include product literature, or other documents, if necessary;

- (5) Terms of any express warranty;
  - (6) Price and any discount terms;
  - (7) "Remit to" address, if different than mailing address;
  - (8) A completed copy of the representations and certifications at FAR 52.212-3;
  - (9) Acknowledgment of Solicitation Amendments;
  - (10) Past performance information, when included as an evaluation factor, to include recent and relevant contracts for the same or similar items and other references (including contract numbers, points of contact with telephone numbers and other relevant information); and
  - (11) If the offer is not submitted on the SF 1449, include a statement specifying the extent of agreement with all terms, conditions, and provisions included in the solicitation. Offers that fail to furnish required representations or information, or reject the terms and conditions of the solicitation may be excluded from consideration.
- (c) Period for acceptance of offers. The offeror agrees to hold the prices in its offer firm for 30 calendar days from the date specified for receipt of offers, unless another time period is specified in an addendum to the solicitation.
- (d) Product samples. When required by the solicitation, product samples shall be submitted at or prior to the time specified for receipt of offers. Unless otherwise specified in this solicitation, these samples shall be submitted at no expense to the Government, and returned at the sender's request and expense, unless they are destroyed during preaward testing.
- (e) Multiple offers. Offerors are encouraged to submit multiple offers presenting alternative terms and conditions or commercial items for satisfying the requirements of this solicitation. Each offer submitted will be evaluated separately.
- (f) Late submissions, modifications, revisions, and withdrawals of offers.
- (1) Offerors are responsible for submitting offers, and any modifications, revisions, or withdrawals, so as to reach the Government office designated in the solicitation by the time specified in the solicitation. If no time is specified in the solicitation, the time for receipt is 4:30 p.m., local time, for the designated Government office on the date that offers or revisions are due.
- (2)
- (i) Any offer, modification, revision, or withdrawal of an offer received at the Government office designated in the solicitation after the exact time specified for receipt of offers is "late" and will not be considered unless it is received before award is made, the Contracting Officer determines that accepting the late offer would not unduly delay the acquisition; and-
- (A) If it was transmitted through an electronic commerce method authorized by the solicitation, it was received at the initial point of entry to the Government infrastructure not later than 5:00 p.m. one working day prior to the date specified for receipt of offers; or
- (B) There is acceptable evidence to establish that it was received at the Government installation designated for receipt of offers and was under the Government's control prior to the time set for receipt of offers; or
- (C) If this solicitation is a request for proposals, it was the only proposal received.

(ii) However, a late modification of an otherwise successful offer, that makes its terms more favorable to the Government, will be considered at any time it is received and may be accepted.

(3) Acceptable evidence to establish the time of receipt at the Government installation includes the time/date stamp of that installation on the offer wrapper, other documentary evidence of receipt maintained by the installation, or oral testimony or statements of Government personnel.

(4) If an emergency or unanticipated event interrupts normal Government processes so that offers cannot be received at the Government office designated for receipt of offers by the exact time specified in the solicitation, and urgent Government requirements preclude amendment of the solicitation or other notice of an extension of the closing date, the time specified for receipt of offers will be deemed to be extended to the same time of day specified in the solicitation on the first work day on which normal Government processes resume.

(5) Offers may be withdrawn by written notice received at any time before the exact time set for receipt of offers. Oral offers in response to oral solicitations may be withdrawn orally. If the solicitation authorizes facsimile offers, offers may be withdrawn via facsimile received at any time before the exact time set for receipt of offers, subject to the conditions specified in the solicitation concerning facsimile offers. An offer may be withdrawn in person by an offeror or its authorized representative if, before the exact time set for receipt of offers, the identity of the person requesting withdrawal is established and the person signs a receipt for the offer.

(g) Contract award (not applicable to Invitation for Bids). The Government intends to evaluate offers and award a contract without discussions with offerors. Therefore, the offeror's initial offer should contain the offeror's best terms from a price and technical standpoint. However, the Government reserves the right to conduct discussions if later determined by the Contracting Officer to be necessary. The Government may reject any or all offers if such action is in the public interest; accept other than the lowest offer; and waive informalities and minor irregularities in offers received.

(h) Multiple awards. The Government may accept any item or group of items of an offer, unless the offeror qualifies the offer by specific limitations. Unless otherwise provided in the Schedule, offers may not be submitted for quantities less than those specified. The Government reserves the right to make an award on any item for a quantity less than the quantity offered, at the unit prices offered, unless the offeror specifies otherwise in the offer.

(i) Availability of requirements documents cited in the solicitation.

(1)

(i) The GSA Index of Federal Specifications, Standards and Commercial Item Descriptions, FPMR Part 101-29, and copies of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained for a fee by submitting a request to--

GSA Federal Supply Service Specifications Section

Suite 8100  
470 L'Enfant Plaza, SW  
Washington, DC 20407  
Telephone (202) 619-8925)

Facsimile (202 619-8978).

(ii) If the General Services Administration, Department of Agriculture, or Department of Veterans Affairs issued this solicitation, a single copy of specifications, standards, and

commercial item descriptions cited in this solicitation may be obtained free of charge by submitting a request to the addressee in paragraph (i)(1)(i) of this provision. Additional copies will be issued for a fee.

(2) The DoD Index of Specifications and Standards (DoDISS) and documents listed in it may be obtained from the--

Department of Defense Single Stock Point (DoDSSP)  
Building 4, Section D

700 Robbins Avenue  
Philadelphia, PA 19111-5094

Telephone (215) 697-2667/2179

Facsimile (215) 697-1462.

(i) Automatic distribution may be obtained on a subscription basis.

(ii) Order forms, pricing information, and customer support information may be obtained--

(A) By telephone at (215) 697-2667 / 2179; or

(B) Through the DoDSSP Internet site at <http://dodssp.daps.mil>.

(3) Nongovernment (voluntary) standards must be obtained from the organization responsible for their preparation, publication or maintenance.

(j) Data Universal Numbering System (DUNS) Number. (Applies to offers exceeding \$25,000.) The offeror shall enter, in the block with its name and address on the cover page of its offer, the annotation "DUNS" followed by the DUNS number that identifies the offeror's name and address. If the offeror does not have a DUNS number, it should contact Dun and Bradstreet to obtain one at no charge. An offeror within the United States may call 1-800-333-0505. The offeror may obtain more information regarding the DUNS number, including locations of local Dun and Bradstreet Information Services offices for offerors located outside the United States, from the Internet home page at <http://www.customerservice@dnb.com>. If an offeror is unable to locate a local service center, it may send an e-mail to Dun and Bradstreet at [globalinfo@mail.dnb.com](mailto:globalinfo@mail.dnb.com).

### **3. FAR 52.212-02 EVALUATION--COMMERCIAL ITEMS (Jan 1999)**

(a) The Government will award a contract resulting from this solicitation to the responsible offeror whose offer conforming to the solicitation will be most advantageous to the Government, price and other factors considered. The following factors shall be used to evaluate offers: (1) technical capability of the item offered to meet the Government requirement, and (2) price.

Technical performance is of more importance when compared to price.

(b) A written notice of award or acceptance of an offer, mailed or otherwise furnished to the successful offeror within the time for acceptance specified in the offer, shall result in a binding contract without further action by either party. Before the offer's specified expiration time, the Government may accept an offer (or part of an offer), whether or not there are negotiations after its receipt, unless a written notice of withdrawal is received before award.

### **4. FAR 52.212-03 OFFEROR REPRESENTATIONS AND CERTIFICATIONS--COMMERCIAL ITEMS (Jun 2003) , Alternate I , (Apr 2002)**

(a) Definitions. As used in this provision:

"Emerging small business" means a small business concern whose size is no greater than 50 percent of the numerical size standard for the NAICS code designated.

"Forced or indentured child labor means all work or service--

(1) Exacted from any person under the age of 18 under the menace of any penalty for its nonperformance and for which the worker does not offer himself voluntarily; or

(2) Performed by any person under the age of 18 pursuant to a contract the enforcement of which can be accomplished by process or penalties.

"Service-disabled veteran-owned small business concern" -

(1) Means a small business concern-

(i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and

(ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case of a veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.

(2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).

"Small business concern" means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR Part 121 and size standards in this solicitation.

"Veteran-owned small business concern" means a small business concern-

(1) Not less than 51 percent of which is owned by one or more veterans(as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and

(2) The management and daily business operations of which are controlled by one or more veterans.

"Women-owned business concern" means a concern which is at least 51 percent owned by one or more women; or in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and whose management and daily business operations are controlled by one or more women.

"Women-owned small business concern" means a small business concern--

(1) That is at least 51 percent owned by one or more women; or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and

(2) Whose management and daily business operations are controlled by one or more women.

(b) Taxpayer Identification Number (TIN) (26 U.S.C. 6109, 31 U.S.C. 7701). (Not applicable if the offeror is required to provide this information to a central contractor registration database to be eligible for award.)

(1) All offerors must submit the information required in paragraphs (b)(3) through (b)(5) of this provision to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325(d), reporting requirements of 26 U.S.C. 6041, 6041A, and 6050M, and implementing regulations issued by the Internal Revenue Service (IRS).

(2) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (31 U.S.C. 7701(c)(3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.

(3) Taxpayer Identification Number (TIN).

☐ TIN:

☐ TIN has been applied for.

☐ TIN is not required because:

☐ Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the United States and does not have an office or place of business or a fiscal paying agent in the United States;

☐ Offeror is an agency or instrumentality of a foreign government;

☐ Offeror is an agency or instrumentality of the Federal Government.

(4) Type of organization.

☐ Sole proprietorship;

☐ Partnership;

☐ Corporate entity (not tax-exempt);

☐ Corporate entity (tax-exempt);

☐ Government entity (Federal, State, or local);

☐ Foreign government;

☐ International organization per 26 CFR 1.6049-4;

☐ Other

(5) Common parent.

☐ Offeror is not owned or controlled by a common parent;

☐ Name and TIN of common parent:

Name:



TIN:

(c) Offerors must complete the following representations when the resulting contract will be performed in the United States or its outlying areas. Check all that apply.

(1) Small business concern. The offeror represents as part of its offer that it ☐ is, ☐ is not a small business concern.

(2) Veteran-owned small business concern. (Complete only if the offeror represented itself as a small business concern in paragraph (c)(1) of this provision.) The offeror represents as part of its offer that it ☐ is, ☐ is not a veteran-owned small business concern.

(3) Service-disabled veteran-owned small business concern. (Complete only if the offeror represented itself as a veteran-owned small business concern in paragraph (c)(2) of this provision.) The offeror represents as part of its offer that it ☐ is, ☐ is not a service-disabled veteran-owned small business concern.

(4) Small disadvantaged business concern. [Complete only if the offeror represented itself as a small business concern in paragraph (c)(1) of this provision.] The offeror represents, for general statistical purposes, that it ☐ is, ☐ is not a small disadvantaged business concern as defined in 13 CFR 124.1002.

(5) Women-owned small business concern. [Complete only if the offeror represented itself as a small business concern in paragraph (c)(1) of this provision.] The offeror represents that it ☐ is, ☐ is not a women-owned small business concern.

Note: Complete paragraphs (c)(6) and (c)(7) only if this solicitation is expected to exceed the simplified acquisition threshold.

(6) Women-owned business concern (other than small business concern). [Complete only if the offeror is a woman-owned business concern and did not represent itself as a small business concern in paragraph (c)(1) of this provision.] The offeror represents that it ☐ is a women-owned business concern.

(7) Tie bid priority for labor surplus area concerns. If this is an invitation for bid, small business offerors may identify the labor surplus areas in which costs to be incurred on account of manufacturing or production (by offeror or first-tier subcontractors) amount to more than 50 percent of the contract price:

(8) Small Business Size for the Small Business Competitiveness Demonstration Program and for the Targeted Industry Categories under the Small Business Competitiveness Demonstration Program. [Complete only if the offeror has represented itself to be a small business concern under the size standards for this solicitation.]

(i) (Complete only for solicitations indicated in an addendum as being set-aside for emerging small businesses in one of the four designated industry groups (DIGs).) The offeror represents as part of its offer that it ☐ is, ☐ is not an emerging small business.

(ii) (Complete only for solicitations indicated in an addendum as being for one of the targeted industry categories (TICs) or four designated industry groups (DIGs).) Offeror represents as follows:

(A) Offeror's number of employees for the past 12 months (check the Employees column if size standard stated in the solicitation is expressed in terms of number of employees); or

(B) Offeror's average annual gross revenue for the last 3 fiscal years (check the Average Annual Gross Number of Revenues column if size standard stated in the solicitation is expressed in terms of annual receipts).

(Check one of the following):

Number of Employees    Average Annual Gross Revenues

\_\_\_ 50 or fewer    \_\_\_ \$1 million or less

\_\_\_ 51 - 100    \_\_\_ \$1,000,001 - \$2 million

\_\_\_ 101 - 250    \_\_\_ \$2,000,001 - \$3.5 million

\_\_\_ 251 - 500    \_\_\_ \$3,500,001 - \$5 million

\_\_\_ 501 - 750    \_\_\_ \$5,000,001 - \$10 million

\_\_\_ 751 - 1,000    \_\_\_ \$10,000,001 - \$17 million

\_\_\_ Over 1,000    \_\_\_ Over \$17 million

(9) (Complete only if the solicitation contains the clause at FAR 52.219-23, Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns, or FAR 52.219-25, Small Disadvantaged business participation Program-Disadvantaged Status and Reporting, and the offeror desires a benefit based on its disadvantaged status.)

(i) General. The offeror represents that either--

(A) It [ ] is, [ ] is not certified by the Small Business Administration as a small disadvantaged business concern and identified, on the date of this representation, as a certified small disadvantaged business concern in the database maintained by the Small Business Administration (PRO-Net), and that no material change in disadvantaged ownership and control has occurred since its certification, and, where the concern is owned by one or more individuals claiming disadvantaged status, the net worth of each individual upon whom the certification is based does not exceed \$750,000 after taking into account the applicable exclusions set forth at 13 CFR 124.104(c)(2); or

(B) It [ ] has, [ ] has not submitted a completed application to the Small Business Administration or a Private Certifier to be certified as a small disadvantaged business concern in accordance with 13 CFR 124, Subpart B, and a decision on that application is pending, and that no material change in disadvantaged ownership and control has occurred since its application was submitted.

(ii) Joint Ventures under the Price Evaluation Adjustment for Small Disadvantaged Business Concerns. The offeror represents, as part of its offer, that it is a joint venture that complies with the requirements in 13 CFR 124.1002(f) and that the representation in paragraph (c)(9)(i) of this provision is accurate for the small disadvantaged business concern that is participating in the joint venture. [The offeror shall enter the name of the small disadvantaged business concern that is participating in the joint venture:    .]

(10) HUBZone small business concern. [Complete only if the offeror represented itself as a small business concern in paragraph (c)(1) of this provision.] The offeror represents, as part of its offer, that--

(i) It [ ] is, [ ] is not a HUBZone small business concern listed, on the date of this representation, on the List of Qualified HUBZone Small Business Concerns maintained by the Small

Business Administration, and no material change in ownership and control, principal office, or HUBZone employee percentage has occurred since it was certified by the Small Business Administration in accordance with 13 CFR part 126; and

(ii) It ☐ is, ☐ is not a joint venture that complies with the requirements of 13 CFR part 126, and the representation in paragraph (c)(10)(i) of this provision is accurate for the HUBZone small business concern or concerns that are participating in the joint venture. [The offeror shall enter the name or names of the HUBZone small business concern or concerns that are participating in the joint venture: \_\_\_\_.] Each HUBZone small business concern participating in the joint venture shall submit a separate signed copy of the HUBZone representation.

(d) Representations required to implement provisions of Executive Order 11246--

(1) Previous Contracts and Compliance. The offeror represents that--

(i) It ☐ has, ☐ has not, participated in a previous contract or subcontract subject to the Equal Opportunity clause of this solicitation; and

(ii) It ☐ has, ☐ has not, filed all required compliance reports.

(2) Affirmative Action Compliance. The offeror represents that--

(i) It ☐ has developed and has on file, ☐ has not developed and does not have on file, at each establishment, affirmative action programs required by rules and regulations of the Secretary of Labor (41 CFR Parts 60-1 and 60-2), or

(ii) It ☐ has not previously had contracts subject to the written affirmative action programs requirement of the rules and regulations of the Secretary of Labor.

(e) Certification Regarding Payments to Influence Federal Transactions (31 U.S.C. 1352). (Applies only if the contract is expected to exceed \$100,000.) By submission of its offer, the offeror certifies to the best of its knowledge and belief that no Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress or an employee of a Member of Congress on his or her behalf in connection with the award of any resultant contract.

(f) Buy American Act Certificate. (Applies only if the clause at Federal Acquisition Regulation (FAR) 52.225-1, Buy American Act--Supplies, is included in this solicitation.)

(1) The offeror certifies that each end product, except those listed in paragraph (f)(2) of this provision, is a domestic end product and that the offeror has considered components of unknown origin to have been mined, produced, or manufactured outside the United States. The offeror shall list as foreign end products those end products manufactured in the United States that do not qualify as domestic end products. The terms "component," "domestic end product," "end product," "foreign end product," and "United States" are defined in the clause of this solicitation entitled "Buy American Act--Supplies."

(2) Foreign End Products:

LINE ITEM NO    COUNTRY OF ORIGIN

\_\_\_\_ List line item numbers and country of origin as applicable.

(3) The Government will evaluate offers in accordance with the policies and procedures of FAR Part 25.

(g).

(1) Buy American Act--North American Free Trade Agreement--Israeli Trade Act Certificate (Applies only if the clause at FAR 52.225-3, Buy American Act--North American Free Trade Agreement--Israeli Trade Act, is included in this solicitation.)

(i) The offeror certifies that each end product, except those listed in paragraph (g)(1)(ii) or (g)(1)(iii) of this provision, is a domestic end product and that the offeror has considered components of unknown origin to have been mined, produced, or manufactured outside the United States. The terms "component," "domestic end product," "end product," "foreign end product," and "United States" are defined in the clause of this solicitation entitled "Buy American Act--North American Free Trade Agreements--Israeli Trade Act."

(ii) The offeror certifies that the following supplies are NAFTA country end products or Israeli end products as defined in the clause of this solicitation entitled "Buy American Act--North American Free Trade Agreement--Israeli Trade Act--Balance of Payments Program":

NAFTA Country or Israeli End Products

LINE ITEM NO COUNTRY OF ORIGIN

\_\_\_ Insert line item numbers and country of origin, as applicable

(iii) The offeror shall list those supplies that are foreign end products (other than those listed in paragraph (g)(1)(ii) of this provision) as defined in the clause of this solicitation entitled "Buy American Act--North American Free Trade Agreement--Israeli Trade Act--Balance of Payments Program." The offeror shall list as other foreign end products those end products manufactured in the United States that do not qualify as domestic end products.

Other Foreign End Products

LINE ITEM NO COUNTRY OF ORIGIN

\_\_\_ Insert line item numbers and country of origin, as applicable.

(iv) The Government will evaluate offers in accordance with the policies and procedures of FAR Part 25.

(2) Buy American Act-North American Free Trade Agreement-Israeli Trade Act Certificate, Alternate I (May 2002). If Alternate I to the clause at FAR 52.225-3 is included in this solicitation, substitute the following paragraph (g)(1)(ii) for paragraph (g)(1)(ii) of the basic provision:

(g)(1)

(ii) The offeror certifies that the following supplies are Canadian end products as defined in the clause of this solicitation entitled "Buy American Act-North American Free Trade Agreement-Israeli Trade Act":

Canadian End Products

Line Item No.:

\_\_\_ [List as necessary]

(3) Buy American Act-North American Free Trade Agreement-Israeli Trade Act Certificate, Alternate II (May 2002). If Alternate II to the clause at FAR 52.225-3 is included in this solicitation, substitute the following paragraph (g)(1)(ii) for paragraph (g)(1)(ii) of the basic provision:

(g)(1)(ii) The offeror certifies that the following supplies are Canadian end products or Israeli end products as defined in the clause of this solicitation entitled ``Buy American Act--North American Free Trade Agreement--Israeli Trade Act":

Canadian or Israeli End Products

Line Item No.:    Country of Origin:

\_\_\_\_ [List as necessary]

(4) Trade Agreements Certificate. (Applies only if the clause at FAR 52.225-5, Trade Agreements, is included in this solicitation.)

(i) The offeror certifies that each end product, except those listed in paragraph (g)(4)(ii) of this provision, is a U.S.-made, designated country, Caribbean Basin country, or NAFTA country end product, as defined in the clause of this solicitation entitled ``Trade Agreements."

(ii) The offeror shall list as other end products those end products that are not U.S.-made, designated country, Caribbean Basin country, or NAFTA country end products.

Other End Products

Line Item No.:    Country of Origin:

\_\_\_\_ [List as necessary]

(iii) The Government will evaluate offers in accordance with the policies and procedures of FAR Part 25. For line items subject to the Trade Agreements Act, the Government will evaluate offers of U.S.-made, designated country, Caribbean Basin country, or NAFTA country end products without regard to the restrictions of the Buy American Act. The Government will consider for award only offers of U.S.-made, designated country, Caribbean Basin country, or NAFTA country end products unless the Contracting Officer determines that there are no offers for such products or that the offers for such products are insufficient to fulfill the requirements of the solicitation.

(h) Certification Regarding Debarment, Suspension or Ineligibility for Award (Executive Order 12549). (Applies only if the contract value is expected to exceed the simplified acquisition threshold.) The offeror certifies, to the best of its knowledge and belief, that the offeror and/or any of its principals --

(1) ☐ Are, ☐ are not presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency; and

(2) ☐ Have, ☐ have not, within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a Federal, state or local government contract or subcontract; violation of Federal or state antitrust statutes relating to the submission of offers; or Commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, or receiving stolen property; and

(3) ☐ Are, ☐ are not presently indicted for, or otherwise criminally or civilly charged by a Government entity with, commission of any of these offenses.

(i) Certification Regarding Knowledge of Child Labor for Listed End Products (Executive Order 13126). (The Contracting Officer must list in paragraph (i)(1) any end products being acquired under this solicitation that are included in the List of Products Requiring Contractor Certification as to Forced or Indentured Child Labor, unless excluded at 22.1503(b).

(1) Listed end products.

(Insert list of any end products being acquired.)

(Insert list of countries of origin.)

(2) Certification. If the Contracting Officer has identified end products and countries of origin in paragraph (i)(1) of this provision, then the offeror must certify to either (i)(2)(i) or (i)(2)(ii) by checking the appropriate block.

(i) ☐ The offeror will not supply any end product listed in paragraph (i)(1) of this provision that was mined, produced, or manufactured in the corresponding country as listed for that product.

(ii) ☐ The offeror may supply an end product listed in paragraph (i)(1) of this provision that was mined, produced, or manufactured in the corresponding country as listed for that product. The offeror certifies that it has made a good faith effort to determine whether forced or indentured child labor was used to mine, produce, or manufacture any such end product furnished under this contract. On the basis of those efforts, the offeror certifies that it is not aware of any such use of child labor.

Alternate I (Apr 2002). As prescribed in 12.301(b)(2), add the following paragraph (c)(11) to the basic provision:

(11) (Complete if the offeror has represented itself as disadvantaged in paragraph (c)(4) or (c)(9) of this provision.) [The offeror shall check the category in which its ownership falls]:

☐ Black American.

☐ Hispanic American.

☐ Native American (American Indians, Eskimos, Aleuts, or Native Hawaiians).

☐ Asian-Pacific American (persons with origins from Burma, Thailand, Malaysia, Indonesia, Singapore, Brunei, Japan, China, Taiwan, Laos, Cambodia (Kampuchea), Vietnam, Korea, The Philippines, U.S. Trust Territory or the Pacific Islands (Republic of Palau), Republic of the Marshall Islands, Federated States of Micronesia, the Commonwealth of the Northern Mariana Islands, Guam, Samoa, Macao, Hong Kong, Fiji, Tonga, Kiribati, Tuvalu, or Nauru).

☐ Subcontinent Asian (Asian-Indian) American (persons with origins from India, Pakistan, Bangladesh, Sri Lanka, Bhutan, the Maldives Islands, or Nepal).

☐ Individual/concern, other than one of the preceding.

#### **5. DFARS 252.212-7000 OFFEROR REPRESENTATIONS AND CERTIFICATIONS-- COMMERCIAL ITEMS (Nov 1995)**

(a) Definitions. As used in this clause-

(1) "Foreign person" means any person other than a United States person as defined in Section 16(2) of the Export Administration Act of 1979 (50 U.S.C. App. Sec. 2415).

(2) "United States person" is defined in Section 16(2) of the Export Administration Act of 1979 and means any United States resident or national (other than an individual resident outside the United States and employed by other than a United States person), any domestic concern (including any

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permanent domestic establishment of any foreign concern), and any foreign subsidiary or affiliate (including any permanent foreign establishment) of any domestic concern which is controlled in fact by such domestic concern, as determined under regulations of the President.

(b) Certification. By submitting this offer, the Offeror, if a foreign person, company or entity, certifies that it--

(1) Does not comply with the Secondary Arab Boycott of Israel; and

(2) Is not taking or knowingly agreeing to take any action, with respect to the Secondary Boycott of Israel by Arab countries, which 50 U.S.C. App. Sec. 2407(a) prohibits a United States person from taking.

(c) Representation of Extent of Transportation by Sea. (This representation does not apply to solicitations for the direct purchase of ocean transportation services).

(1) The Offeror shall indicate by checking the appropriate blank in paragraph (c)(2) of this provision whether transportation of supplies by sea is anticipated under the resultant contract. The term "supplies" is defined in the Transportation of Supplies by Sea clause of this solicitation.

(2) Representation. The Offeror represents that it--

\_\_\_\_\_ Does anticipate that supplies will be transported by sea in the performance of any contract or subcontract resulting from this solicitation.

\_\_\_\_\_ Does not anticipate that supplies will be transported by sea in the performance of any contract or subcontract resulting from this solicitation.

(3) Any contract resulting from this solicitation will include the Transportation of Supplies by Sea clause. If the Offeror represents that it will not use ocean transportation, the resulting contract will also include the Defense Federal Acquisition Regulation Supplement clause at 252.247-7024, Notification of Transportation of Supplies by Sea.

## **6. AEDC-K001 ELECTRONIC PROPOSALS (Aug 2003)**

Proposals will be accepted electronically in accordance with FAR Part 15.208, Submission, Modification, Revision, and Withdrawal of Proposals. Proposals may be emailed to Ms. Karen Buckner at karen.buckner@arnold.af.mil.

## **7. AEDC-K002 CONTRACT SPECIFICATIONS (Aug 2003)**

The CLINS shall conform to the specifications identified on the following index:

Title	Date
Spectroradiometer Specifications	19 August 2003

# **Automated Spectroradiometric Measurement System Specifications**

19 August 2003

## **General**

1. The system, with appropriate optional accessories, shall be capable of operating over the entire wavelength range of 0.28 to 30  $\mu\text{m}$  (0.2 to 30  $\mu\text{m}$  with double monochromator option).
2. The system, with appropriate optional accessories, shall be capable of performing any of the following types of measurements: spectral radiance, irradiance, or power output of light sources; spectral response of detectors; diffuse or total hemispherical reflectance of materials; specular reflectance as function of both wavelength and angle of incidence; both regular and diffuse spectral transmittance of materials.
3. The system shall have the ability of incorporating one or more of the following signal detection systems: DC amplification; AC synchronous lock-in amplification; photon counting; and pulse integration. Software shall be provided to accomplish automatic electronic switching from one signal detection system to another.
4. The system shall have integrated "turn-key" application software available for computer controlled measurements of all the optical parameters specified in Item 2.
5. The system shall have a built-in, automatic wavelength calibration capability for all gratings. Software for performing the automatic grating calibrations shall be provided.
6. The system shall be capable of being furnished meeting all of the above requirements or meeting only a portion the above requirements with the capability of being upgraded at the customer's facility at a later date using already developed and tested accessories.



## Monochromator

7. The optical design shall be a high-efficiency (f/4) Czerny-Turner grating monochromator with 68 X 68 mm gratings.
8. A computer controlled, tri-grating mount shall be standard with additional tri-grating mounts available as options.
9. A computer controlled, 11-position second order blocking filter wheel with zero and 100% positions shall be standard.
10. Gratings and blocking filters for covering all or part of the entire 0.28 to 30  $\mu\text{m}$  shall be available as options (0.2 to 30  $\mu\text{m}$  with double monochromator option).
11. For those systems furnished with the AC lock-in amplification signal detection, a computer controlled, variable frequency optical chopper shall be built into the monochromator.
12. Six sets of user interchangeable fixed slits for selection of bandwidth and signal level shall be standard.
13. The monochromator shall have a wavelength accuracy of  $\pm 0.2 \text{ nm}$ .
14. The mechanical wavelength drive of the monochromator shall be direct geared, allowing the selection and control of the gratings with a single mechanism.
15. The dispersion of the monochromator with the 1200 g/mm gratings shall nominally be 4 nm/mm or better in the range of 200 to 1000 nm (2 nm/mm or better for double monochromator option).
16. The bandwidth of the monochromator with the 1200 g/mm gratings shall be variable from approximately 0.5 to 20 nm (0.25 to 10 nm for double monochromator option).
17. The stray light of the monochromator shall be less than  $1 \times 10^{-4}$  (less than  $10^{-8}$  for double monochromator option).
18. The focal length of the monochromator shall be a nominal 254 mm (f/4).
19. The frequency of the optical chopper shall be variable from 10-300 Hz. The setting, calibration, and control of the optical chopper shall be controlled by software without the need for user intervention. The optical chopper should also be capable of automatically positioning to the fully open position.
20. The operating temperature of the system shall be 5°C to 40°C.

## **Controller**

21. A controller in a separate enclosure shall contain all data acquisition and control electronics.
22. Communications with the host computer (not furnished) shall be RS-232 interface. IEEE-488 shall be available as an option.
23. A 32-bit microprocessor with digital signal processing (DSP) technology shall be used.
24. The controller shall perform all monochromator controls, selection of detectors, chopping frequency, signal detection systems, and signal processing.
25. The controller shall be capable of accepting inputs of up to 4 detectors at one time.
26. The design of the controller shall enable easy factory upgrades for all grating, filter, detector, and signal detection upgrades.
27. The controller shall have the option of being configured as a stand alone radiometer/photometer without the monochromator.

## **Detectors**

28. A selection of high sensitivity detectors shall be available for effectively covering the entire wavelength range of 0.28 to 30  $\mu\text{m}$ .
29. The detector heads shall contain the detector element and the detector preamplifier electronics in order to obtain the highest possible detectivity.
30. The following high sensitivity detector modules shall be available:
  - Silicon
  - Silicon/Ge
  - Ge
  - PbS
  - InSb
  - Pyroelectric
  - Silicon/PbS
  - PMT
  - InGaAs
  - PbSe
  - HgCdTe

## **Software**

31. General operating software combining data reduction and utility programs with the optional application programs shall be standard for a completely integrated operating system.
32. The software shall be Windows 95/98/NT/2000/ME/XP compatible.
33. The software shall use overlapping, pull-down menus for system setup, utilities support, automated measurements, and manual measurements.
34. Specific measurement application software for source spectral analysis, detector spectral response, diffuse spectral reflectance, specular spectral reflectance, and spectral transmittance shall be available.
35. The software shall generate quality plots on printers or plotters with several alternative types of graphs.

## **Input Optics/Exit Optics**

36. Optional input/exit optics shall be available for measuring spectral output of light sources. These modules shall enable the system to measure spectral radiance, irradiance, power, and intensity.
37. Optional input/exit optics shall be available for measuring spectral response of detectors, radiometers, photometers, arrays, and CCD's.
38. Optional input/exit optics shall be available for measuring diffuse or total hemispherical reflectance of materials. These attachments shall enable reflectance measurements to be made including or excluding the specular component.
39. Optional input/exit optics shall be available for measuring specular reflectance of materials as a function of wavelength and angle of incidence. The optical design of the specular reflectance attachment shall enable the user to use the self calibrating technique of 100% calibration.
40. Optional input/exit optics shall be available for measuring spectral transmittance of regular or diffusely transmitting materials.

The system and components being purchased must be compatible with existing system. Listed below are components being used from existing system. The existing system is Optronic Laboratories 746D.

Accessories To Be Used From Existing OL 746D System are:

- OL 730-5C Si Detector
- OL 740-14B PbS Detector
- OL 740-15 PMT Detector
- OL 740-16 Ge Detector
- OL 740-17 Pyroelectric Detector
- OL 740-18 InSb Detector
- OL 740-19 HgCdTe Detector
- OL 740-19A HgCdTe Preamp
- OL 740-20D/IR Dual Source Attachment (Vis/IR)
- OL 45D Power Supply
- OL 16DS Power Supply
- OL 65DS Power Supply
- OL 83DS Power Supply
- OL 83A Power Supply
- OL 740-10 Imaging Optics Module
- OL 15 LED Receptor with 2° and 6.5° FOV Apertures
- OL 85-T Cosine Receptor (Teflon)
- OL 85-O Cosine Receptor (Opal)
- OL 740-70 Diffuse Reflectance Attachment (PTFE)
- OL 740-70G Diffuse Reflectance Attachment (Gold)
- OL 740-75M Specular Reflectance Attachment
- OL 740-77 Dual Beam Exit Optics Attachment
- OL UV-40 Ultraviolet Irradiance Standard
- OL 220C Spectral Irradiance Standard
- OL 57W Lamp Holder
- OL FEL-C Spectral Irradiance Standard
- OL 61 FEL Lamp Holder
- OL 62 FEL Alignment Jig
- OL 550 Spectral Radiance Standard
- OL 59 Lamp Holder
- OL 480 Variable Temperature Blackbody Calibration Source
- OL Series 455 Variable Integrating Sphere Calibration Source